

Application No. 10/628,787
Amtd. dated September 29, 2006
Reply to Office action of June 29, 2006

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Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (currently amended): An anti-adhesion patch, comprising:

an acid-treated non-denatured, acellular collagenous material; and
at least one non-living cellular component.

Claim 2. (original): The anti-adhesion patch of claim 1, wherein said collagenous material is collagen type I or a combination of collagen type I and a co-component.

Claim 3. (original): The anti-adhesion patch of claim 2, wherein said co-component is selected from the group consisting of elastin, interstitial collagens, collagen type I, V and IX, glycoproteins and proteoglycans.

Claim 4. (original): The anti-adhesion patch of claim 1, wherein said collagenous material is from a natural source or a recombinant source.

Claim 5. (original): The anti-adhesion patch of claim 1, wherein said non-living cellular component is from a natural source or a recombinant source.

Claim 6. (original): The anti-adhesion patch of claim 5, wherein said non-living cellular component from a natural source is human connective tissue cell.

Claim 7. (original): The anti-adhesion patch of claim 6, wherein said human connective tissue cell is a fibroblast cell or a vascular smooth muscle cell.

Claim 8. (original): The anti-adhesion patch of claim 7, wherein said fibroblast cell is a dermal fibroblast cell.

Claim 9. (original): The anti-adhesion patch of claim 5, wherein said non-living cellular component from a recombinant source is an engineered cell.

Claim 10-24. (cancelled)

Claim 25. (withdrawn): A method for preventing tissue adhesions between organs and other tissues being operated upon during surgical procedures, comprising the step of: attaching an anti-adhesion patch to one of the surfaces of the tissues being operated upon, wherein said anti-adhesion patch comprises a collagenous material and at least one non-living cellular component, wherein said anti-adhesion patch is biodegradable and participates

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information of adhesion thereby preventing tissue adhesions between organs and other tissues being operated upon.

Claim 26. (cancelled)

Claim 27. (withdrawn): The method of claim 25, wherein said anti-adhesion patch is attached to the traumatized tissues using a tissue glue.

Claim 28. (withdrawn): The method of claim 27, wherein said tissue glue is a fibrin tissue glue or another type of biocompatible bio-adhesive.

Claim 29. (withdrawn): The method of claim 28, wherein said another type of bio-adhesive is Nitinol Coupler.

Claim 30. (withdrawn): The method of claim 25, wherein the surgical procedures occur at an anatomical location selected from a group consisting of thoracic cavity, abdominal cavity, ophthalmic system, orthopedic system, central nervous system, reproductive tract and an oral cavity.

Claim 31. (withdrawn): A method for enhancing wound healing and tissue repairing, the method comprising the steps of: attaching an anti-adhesion patch to one of the surfaces of the wounded tissue; and packing a soft or connective tissue wound; wherein said anti-adhesion patch comprises a collagenous material and at least one non-living cellular component, wherein said anti-adhesion patch is vascularized and populated by wound healing cells in such a way as to participate in tissue augmentation and remodeling thereby enhancing wound healing and tissue repair.

Claim 32. (withdrawn): The method of claim 31, wherein said anti-adhesion patch is attached to the wounded tissue using a tissue glue

Claim 33. (withdrawn): The method of claim 32, wherein said tissue glue is a fibrin tissue glue or another type of biocompatible bio-adhesive.

Claim 34. (withdrawn) The method of claim 33, wherein said another type of bio-adhesive is Nitinol Coupler.

Claim 35. (withdrawn): A patch, comprising:
an acellular collagenous material selected from collagen type I, interstitial collagens, collagen type III, V, IX and combinations thereof; and

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at least one non-living cellular component, wherein the patch is non-adhesive.

Claim 36. (withdrawn): The patch of claim 35, wherein said collagenous material is from a natural source or a recombinant source.

Claim 37. (withdrawn): The patch of claim 35, wherein said non-living cellular component is from a natural source or a recombinant source.

Claim 38. (withdrawn): The patch of claim 35, wherein said non-living cellular component from a natural source is a human connective tissue cell.

Claim 39. (withdrawn): The patch of claim 35, wherein said non-living cellular component from a recombinant source is an engineered cell.

Claim 40. (withdrawn): A surgical anti-adhesion patch made by the method comprising mixing human connective tissue cells with a collagenous material; incubating the resulting mixture in a matrix organization medium to stimulate the cells to adapt to and organize the collagenous material into a mono-cellular tissue equivalent having desirable dimensions and mechanical properties; treating the tissue equivalent to eliminate the cells.